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Wiki Assignment 1  
CBSE 7201T

### Action Research

Action research is defined as a wide variety of evaluative, investigative, and analytical research methods designed to diagnose problems or weaknesses—whether organizational, academic, or instructional.

### Define The Problem

For my action research, I will be investigating inquiry based learning in childhood education. I will investigate if inquiry based learning is effective in childhood education. I chose this topic because majority of classrooms have switched from teacher-led to inquiry based. This form of learning has proven to encourage students to gain a deeper understanding of the material they are learning. The problem with this method is that some teachers aren't properly trained in how to effectively use this method therefore students are not benefiting from this method the way that previous research suggest.

### Pros

Inquiry based learning is known for “turning children into the scientist”. This method also promotes critical thinking.

Gormally, C., Brickman, P., Hallar, B., & Armstrong, N. (2009). Effects of inquiry-based learning on students' science literacy skills and confidence. *International journal for the scholarship of teaching and learning*, 3(2), 16.

Magnussen, L., Ishida, D., & Itano, J. (2000). The impact of the use of inquiry-based learning as a teaching methodology on the development of critical thinking. *Journal of Nursing Education*, 39(8), 360-364.

### Cons

This method has been found to be effective, but some students do not know how to use this method and students need to be properly trained to work in an inquiry based learning environment.

Edelson, D. C., Gordin, D. N., & Pea, R. D. (1999). Addressing the challenges of inquiry-based learning through technology and curriculum design. *Journal of the learning sciences*, 8(3-4), 391-450.

Kirschner, P. A., Sweller, J., & Clark, R. E. (2006). Why minimal guidance during instruction does not work: An analysis of the failure of constructivist, discovery, problem-based, experiential, and inquiry-based teaching. *Educational psychologist*, 41(2), 75-86.

#### Proposed Intervention

For this experiment I will be looking at two things. Inquiry based learning in a fifth grade vs inquiry based learning in a first grade classroom, and inquiry based learning in the same grade. I am focusing on two categories because, not only do I want to see if inquiry based learning is effective in the classroom but I also want to investigate if younger grades (K-2) benefit from this less than grades (3-5).

For my research I would have students separated into an inquiry based classroom or a teacher-led/ teacher-assisted classroom. The student will be given a test at the end and their scores will determine if there is a significant difference between the two groups.

Healey, M. (2005). Linking research and teaching exploring disciplinary spaces and the role of inquiry-based learning. *Reshaping the university: new relationships between research, scholarship and teaching*, 67-78.